

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P554034

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-80-85-EDD-90**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P554034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-1HI-50-UNV-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

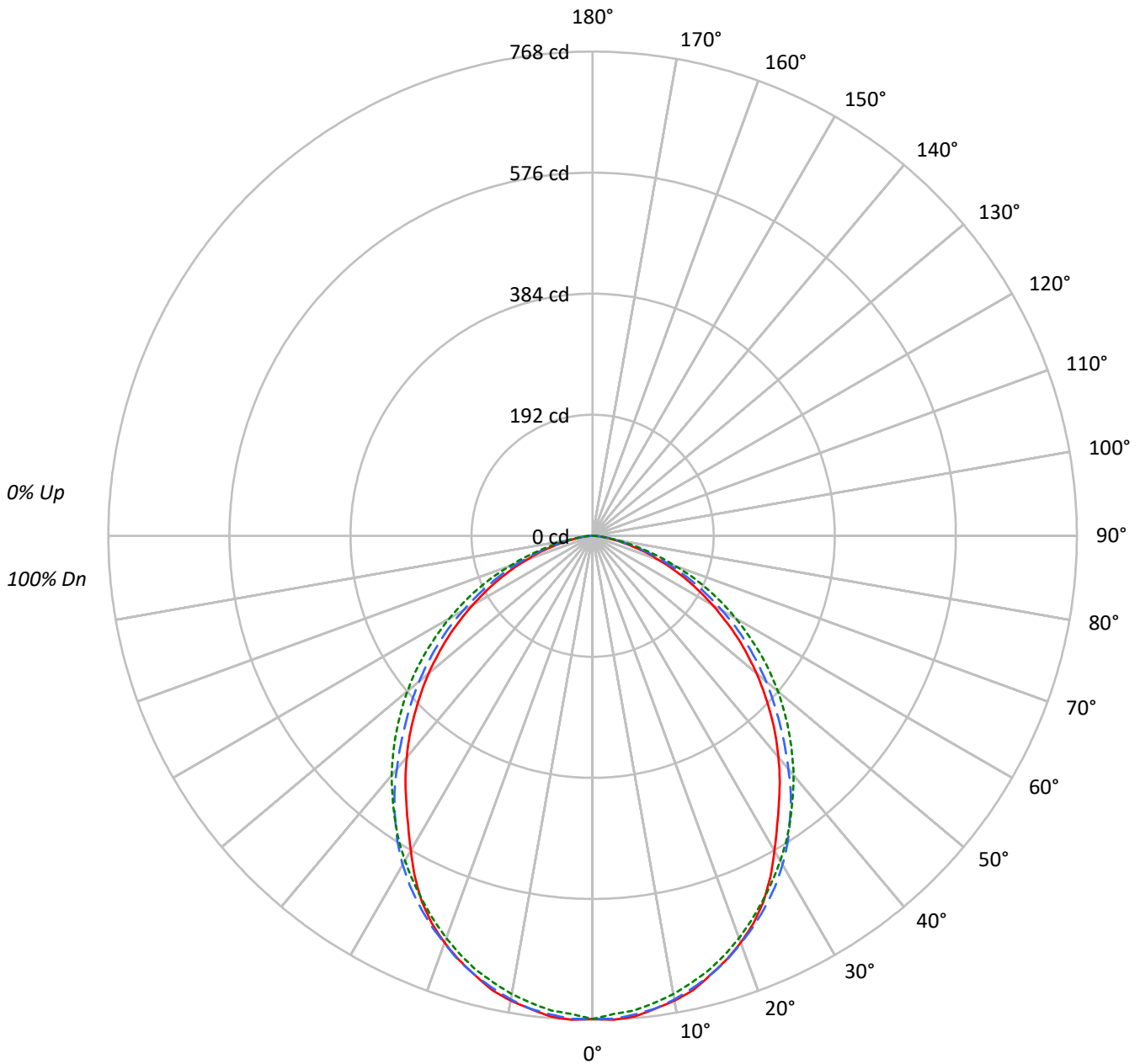
Lumens per Lamp: N/A
Luminaire Lumens: 1772.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4124	4124	4124
5°	4136	4118	4083
10°	4092	4080	4034
15°	4019	4019	3973
20°	3934	3939	3888
25°	3804	3852	3790
30°	3583	3744	3698
35°	3385	3588	3594
40°	3221	3394	3483
45°	3036	3188	3352
50°	2843	3005	3209
55°	2622	2795	3036
60°	2361	2551	2823
65°	2085	2268	2569
70°	1737	1932	2183
75°	1366	1543	1707
80°	976	1085	1206
85°	636	636	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	4.1
10°-20°	202.7	11.4
20°-30°	296.2	16.7
30°-40°	336.2	19.0
40°-50°	324.6	18.3
50°-60°	267.7	15.1
60°-70°	178.3	10.1
70°-80°	79.8	4.5
80°-90°	14.3	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	571.1	32.2
0°-40°	907.3	51.2
0°-60°	1499.6	84.6
0°-90°	1772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	766	765	762	758	756	72
15°	721	723	721	718	713	203
25°	641	646	649	644	638	293
35°	515	522	546	549	547	323
45°	399	406	419	438	440	308
55°	279	284	298	314	324	249
65°	164	168	178	191	202	162
75°	66	69	74	78	82	72
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.3	766.3	766.3	766.3	766.3
2.5°	768.4	768.7	766.9	762.2	759.3
5°	765.5	765.2	762.2	758.1	755.7
7.5°	756.9	757.5	756.6	750.7	747.5
10°	748.7	749.0	746.6	741.9	738.1
12.5°	738.1	737.8	734.5	732.2	726.0
15°	721.3	723.1	721.3	718.1	713.1
17.5°	705.1	705.1	706.3	700.7	696.9
20°	686.9	687.7	687.7	683.3	678.9
22.5°	665.7	668.3	669.2	664.5	659.2
25°	640.6	645.6	648.6	643.9	638.3
27.5°	610.3	618.0	626.8	623.3	617.1
30°	576.5	587.6	602.4	599.4	595.0
32.5°	544.4	555.5	575.9	574.7	572.3
35°	515.2	522.3	546.1	549.1	547.0
37.5°	487.5	494.0	516.4	523.2	521.4
40°	458.4	465.5	483.1	495.2	495.8
42.5°	429.5	436.3	450.7	468.1	468.1
45°	398.9	405.7	418.9	438.1	440.4
47.5°	368.9	376.0	388.9	408.0	411.9
50°	339.5	345.9	358.9	377.4	383.3
52.5°	308.8	315.9	328.6	345.6	354.2
55°	279.4	284.1	297.9	314.4	323.6
57.5°	248.8	253.2	268.8	282.9	292.3
60°	219.3	224.9	237.0	251.4	262.3
62.5°	191.1	197.0	207.3	219.9	232.3
65°	163.7	168.1	178.1	190.8	201.7
67.5°	137.2	141.0	151.0	159.9	171.3
70°	110.4	115.4	122.8	131.3	138.7
72.5°	88.9	91.0	97.2	103.3	111.0
75°	65.7	69.2	74.2	77.7	82.1
77.5°	47.1	49.2	52.1	55.1	59.2
80°	31.5	32.4	35.0	35.6	38.9
82.5°	19.1	19.7	20.3	20.6	21.8
85°	10.3	10.3	10.3	9.7	9.7
87.5°	5.9	5.9	5.0	4.1	2.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)